

ABSTRACT

Producing a three-dimensional multi-material component whereby successive layers of at least one material are printed by a drop ink-jet-type printer including cutting a representation of the multi-material component into remarkable objects; cutting the representation of the component into print layers, as a function of the remarkable objects; for each print layer, establishing a plurality of discrete spatial print path trajectories; for each print layer and for each discrete spatial trajectory, establishing an assembly of printing parameters which are dependent on the nature of the deposited materials and the deposition conditions thereof; and establishing a rule for the spatial and temporal sequencing of the print path of the print layers and of the discrete spatial trajectories as a function of the objects, the relative three-dimensional arrangement thereof and the characteristics of the printing device.